

Find Milder Type Of Atomic Blast

Second Process Seen Safer For Peace Uses

NEW YORK — An official British report on the atomic bomb reveals there are two kinds of atomic explosions, one the city destroying type, and the other only about as powerful as ordinary explosives. The low-power explosion has important implications for world safety in the promise that in producing atomic power for peace the engineers will deal with a force that is not much greater in destructive capacity than the accidents in steam and gasoline power plants.

The two kinds of atomic explosions depend on fast neutrons for an atomic bomb and slow neutrons for atomic power.

Fast neutrons are uncharged particles that travel at thousands of miles a second and with energies of millions of volts each. Slow neutrons drop to energies of only a few volts or even fractions of a volt, and also to a few miles per second in speed.

But these slow neutrons are about 10 times more effective than the fast kind in producing the splits of cores of uranium or plutonium atoms.

Their very slowness prevents their use in an atomic bomb. They would start the explosion without difficulty but before they could spread to detonate the entire atomic charge the expansion would separate portions of the atomic explosive.

This separation would end the reaction. There would be an ordinary explosion.

A peculiarity of the atomic explosives, uranium 235 and plutonium, is the fact that they are safe until the instant when more than two pounds are brought together into a single closely packed mass. The slow neutron explosion would separate this mass too soon.

The fast neutrons, however, work in millions of a second and spread so fast that they ignite all, or nearly all of the atomic explosive.

German Ordnance Had 44 Mile Shell, Yanks Find

CHICAGO. — In examining German secret weapons, army ordnance experts have discovered a new type of ammunition designed for ranges of 44 miles, according to Col. John Slesak, chief of the Chicago Ordnance district.

Investigators have uncovered a German-developed gun about 32 inches in diameter and capable of firing a 5-ton shell.

Ordnance officers, conducting investigations at Hiltersleben and Bad Blankenburg, large German research centers, also found a projectile which, though fired from a gun, becomes rocket-propelled after leaving the gun.

Scientists Are Planning To Check on Atomic Bomb

WASHINGTON. — U. S. scientists who developed the atomic bomb plan to investigate the wrecks of Hiroshima and Nagasaki as soon as possible after American occupation of Japan, it was understood recently.

They are eager, it was believed, to determine the truth or untruth of reports that fatal radio-activity lingered at Hiroshima for weeks after the first atomic bomb exploded over the city August 6.

Rhine River Has Been Made Navigable Again

WIESBADEN, GERMANY. — The Rhine river is again navigable, United States military headquarters announced.

Col. John B. Hughes, deputy director of the transportation division of the United States group control council for Germany, said the immediate effect would be to relieve the coal situation and allow wheat to be moved to the front in the Rhine.

Jerries wins race for mayor of Detroit.

Tension increases in China.

Phone 30 with Personnel

SALE OF Delinquent Land

List of Tracts of land and town lots returned delinquent for the non-payment of taxes for the year 1945, stating the total tax, penalty, and cost of several tracts and lots of land respectively.

The sale will be held at the Court House at Appomattox, Va. on the second Monday in December, December 10th, 1945, at 10 A. M. according to law, unless the taxes are paid before that date.

CLOVER HILL DISTRICT WHITE			
Name	Acres	Amt.	
Gordon, G. D., J. L. and F. C. and R. M. Mitchell	318	36.17	
Giffith, Allie R.	100	18.39	
Taylor, Marie F. and Helra	2	4.23	
SOUTHSIDE DISTRICT WHITE			
Crowley, William P.	314 1-2	33.45	
Dillon, R. C.	313 3-4	21.54	
STONEWALL DISTRICT WHITE			
Garrett, W. C.	96	9.45	
Robertson, W. D.	6	1.85	
CLOVER HILL DISTRICT COLORED			
Cawthorn, Anthony Est.	83	12.20	
SOUTHSIDE DISTRICT COLORED			
Coleman, Charlie T.	26	7.83	
Coleman, Charlie T.	3	1.98	
Williams, J. F. and Janie	20	1.77	
STONEWALL DISTRICT COLORED			
Crump, Margie and Children	20	1.59	
Davis, Elie	4 3-4	1.58	
Day, Walter	98	8.65	
Dunge, Edward	27	12.35	
Goff, Delany	24 1-2	4.87	
Johnson, Anderson	7	.66	
Robertson, Lucy	3	1.37	

R. L. BURKE
Treasurer of Appomattox County.

Genuine Oyster Shells

LAYING MASHES

Starting and Growing Mashers

Order Fall FERTILIZER Now!

Farmer's Headquarters

H. C. PULLIAM

Cooperative Service Agency — Appomattox, Virginia

This Is America



WHERE HARD GUYS o. the battlefield, men who met the enemy at bayonet point, now spend their time keeping their minds off the horrors of war by wearing so that when ready they can accept training provided by Victory Loan Bond dollars and once again stand on their own economic feet, heads proudly.

It's Not All Corn



THIS PIECE OF CORN WOULD BE ABOUT TWENTY-FIVE POUNDS MORE IN VALUE THAN THE OTHER TWO.

Billionaire Firms in U. S. Increased to 43

NEW YORK. — The number of private business enterprises with total resources of a billion dollars or more has increased by 11 during America's participation in the Second World War, a United Press study disclosed recently.

The survey revealed that 43 business organizations in the United States now boast membership in the billion-dollar club compared with 32 on December 31, 1934, a short time after the Japanese sneak attack on Pearl Harbor. At this time last year, billionaire enterprises numbered 41.

Metropolitan Life Insurance company, the study showed, led the list of billion-dollar organizations for the second successive year. The company, one of the nine insurance companies to make the billion-dollar grade, reported total resources of \$6,995,450,571.

Bell Telephone system, comprising American Telephone & Telegraph company and its telephone operating subsidiaries, again ran second with \$6,548,361,704 in resources.

Procter and Gamble company held third place with \$5,856,980,815. Chase National bank of the city of New York, the world's largest commercial bank, retained fourth position with \$5,288,247,000.

NOTHING LESS THAN THE BEST

Is Good Enough for the ONLY pair of Eyes

You'll Ever Have

Consult Your EYE PHYSICIAN

Then See Your GUILD OPTICIAN

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BACK UP YOUR BOY

increase your payroll savings to your family limit

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